



034100-002.ST25

SEQUENCE LISTING

<110> Nakao, Yoshihiro
Nakamura, Norihisa
Kodama, Yukiko
Fujimura, Tomoko
Ashikari, Toshihiko

<120> Screening Method for Genes of Brewing Yeast

<130> 034100-002

<140> US 10/791,791

<141> 2004-03-04

<150> JP 057677/2003

<151> 2003-03-04

<160> 32

<170> FastSEQ for Windows Version 4.0

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<211> 1377

<212> DNA

<213> *Saccharomyces* sp.

<400> 1

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gcttgtgcac tggaacaatt actgcttcaa aaaaacttat ctgcttatag gttagatggg 180
gataacattc gtttttggtt gaataaggat ttgggcttct cagaaaagga cagaaatgaa 240
aacattcgta gaattagtga agtatccaag ctattcgctg attcgtgtgc tgtatccatc 300
acttcattta tttccccata cagagtcgat agagacagag cccgtgattt acataaggaa 360
gcaggcttga agttcattga aatttttggt gatgttccat tagaagtcgc tgagcaaaga 420
gaccctaagg gtttgtataa gaaagccaga gaaggtgtga ttaaagagtt cactggtatt 480
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Ser Phe Pro Tyr Pro Ala Arg Trp Leu Arg Ile Cys Ser Thr Ile Met
35     40     45
Phe Ala Ile Thr Cys Leu Ile Phe Ile Ser Val Gln Ala Leu Gln Leu
50     55     60
Leu His Met Val Ile Tyr Ile Lys Glu Lys Ser Phe Arg Asp Tyr Phe
65     70     75     80
Asn Glu Tyr Phe Arg Ser Leu Lys Tyr Asn Leu Phe Trp Gly Thr Tyr
85     90     95
Pro Met Gly Leu Val Thr Ile Ile Asn Phe Leu Gly Ala Leu Ser Gln
100    105    110
Lys Phe Thr Thr Ser Pro Ala Asn Ala Lys His Leu Ile Ile Phe
115    120    125
Val Tyr Val Leu Trp Trp Tyr Asp Leu Ala Val Cys Leu Val Thr Ala
130    135    140
Trp Gly Ile Ser Phe Leu Ile Trp Gln Lys Tyr Tyr Phe Val Asp Gly
145    150    155    160
Val Gly Asn His Ser Ser Tyr Ser Ser Arg Met Ala Ser Asp His Met
165    170    175
Lys Ser Val Leu Leu Leu Asp Ile Ile Pro Leu Val Val Val Ala Ser
180    185    190
Ser Gly Gly Thr Phe Thr Met Ser Lys Ile Phe Gly Thr Thr Phe Asp
195    200    205
Arg Asn Ile Gln Leu Leu Thr Leu Val Ile Cys Ala Leu Val Trp Leu
210    215    220
His Ala Leu Ile Phe Val Phe Ile Leu Ile Thr Ile Tyr Phe Trp Asn
225    230    235    240
Leu Tyr Ile Asn Lys Ile Pro Pro Met Thr Gln Val Phe Thr Leu Phe
245    250    255
Leu Val Leu Gly Pro Leu Gly Gln Gly Ser Phe Gly Ile Leu Leu Leu
260    265    270
Thr Asp Asn Ile Arg Lys Tyr Val Glu Lys Tyr Tyr Pro Arg Glu Asn
275    280    285
Ile Thr Met Glu Gln Glu Ile Leu Thr Ile Met Val Pro Trp Cys Phe
290    295    300
Lys Val Leu Gly Met Thr Phe Ala Leu Ala Leu Ile Ala Met Gly Tyr
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Phe Phe Thr Val Ile Ser Leu Ile Ser Ile Leu Ser Tyr Tyr Asn Glu

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          325          330          335
Arg Val Val Asp Asn Glu Thr Gly Lys Val Lys Arg Ile Tyr Thr Phe
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His Lys Gly Phe Trp Gly Met Thr Phe Pro Met Gly Thr Met Ser Leu
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Gly Asn Glu Glu Leu Tyr Leu Gln Tyr Asn Gln Tyr Val Pro Leu Tyr
          370          375          380
Ala Phe Arg Val Ile Ala Thr Ile Tyr Gly Gly Ile Cys Val Cys Trp
385          390          395          400
Ser Ile Leu Cys Leu Ser Cys Thr Leu Tyr Gly Tyr Leu Lys Thr Ile
          405          410          415
Leu His Ala Ala Arg Lys Pro Ser Phe Leu Ser Glu Glu Gly Thr Glu
          420          425          430
Lys Thr Val Asn Ser Pro Phe Asn Ser Ile Glu Ser Val Glu Glu Ser
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Asn Ser Ala Ile Asp Ser Thr Tyr Leu Thr
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<210> 4
 <211> 202
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 <213> Saccharomyces sp.

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Ser Ala Ser Gly Lys Ser Thr Ile Ala Cys Ala Leu Glu Gln Leu Leu
          35          40          45
Leu Gln Lys Asn Leu Ser Ala Tyr Arg Leu Asp Gly Asp Asn Ile Arg
          50          55          60
Phe Gly Leu Asn Lys Asp Leu Gly Phe Ser Glu Lys Asp Arg Asn Glu
65          70          75          80
Asn Ile Arg Arg Ile Ser Glu Val Ser Lys Leu Phe Ala Asp Ser Cys
          85          90          95
Ala Val Ser Ile Thr Ser Phe Ile Ser Pro Tyr Arg Val Asp Arg Asp
          100          105          110
Arg Ala Arg Asp Leu His Lys Glu Ala Gly Leu Lys Phe Ile Glu Ile
          115          120          125
Phe Val Asp Val Pro Leu Glu Val Ala Glu Gln Arg Asp Pro Lys Gly
          130          135          140
Leu Tyr Lys Lys Ala Arg Glu Gly Val Ile Lys Glu Phe Thr Gly Ile
145          150          155          160
Ser Ala Pro Tyr Glu Ala Pro Lys Ala Pro Glu Leu His Leu Arg Thr
          165          170          175
Asp Gln Lys Thr Val Glu Glu Cys Ala Ala Ile Ile Tyr Glu Tyr Leu
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Val Asn Glu Lys Ile Ile Arg Lys His Leu
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<223> M13_for

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<223> SS-cosF.1

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<213> SS-cosR.1Artificial Sequence

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<223> SS-cosF.1

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<210> 9

<211> 36

<212> DNA

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<223> XVI-1(L)cer-95894

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<210> 15
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<210> 16
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<400> 18

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<223> SScSSU1_for

<400> 19

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<223> ScSSU1_rv

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<400> 23
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<210> 24
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<400> 25
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<210> 26

<211> 22
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 <223> PDA1_730rv

<400> 28
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<210> 31
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<223> SacI-ScMET14_for

<400> 31

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<210> 32

<211> 30

<212> DNA

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<223> BamHI-ScMET14_rv

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